

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: GUERIN-SCHMITT, Genevieve

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EXAMINER: Nichols II, R. K.

TITLE: TRANSMISSION DEVICE AND APPLICATION TO A METERING DEVICE

Amendment A: CLAIM AMENDMENTS

Claims 1 - 10 (canceled).

11. (new) A transmission device for transforming an oscillating movement into a unidirectional rotational movement, the transmission device comprising:

an oscillating axle;

an actuator connected to said oscillating axle so as to oscillate between a first position in a driving direction and in a second position in a return direction, said return direction being opposite to said driving direction;

a wheel having a rotational axle extending therefrom, said oscillating axle and said rotational axle being aligned;

a driving means for driving said wheel by a bracing effect into a first direction, said driving means being slaved to said actuator; and

a locking means for locking said wheel by a bracing effect so as to prevent said wheel from rotating in a second direction opposite to said first direction, said wheel having a smooth circumferential edge, said driving means having a first eccentric cooperative with said circumferential edge, said locking means having a second eccentric cooperative with said circumferential edge, a distance between a rotation of one of said first and second eccentrics and said rotational axle of said wheel being constant during the rotations thereof, said first eccentric bracing

against said wheel when said actuator moves in said driving direction so as to drive said wheel into said first direction, said second eccentric bracing against said wheel when said actuator moves in said return direction so as to prevent said wheel from rotating in said second direction, one of said first and second eccentrics being slidable freely along said circumferential edge when the other of said first and second eccentrics braces against said circumferential edge.

12. (new) The transmission device of Claim 10, said actuator being a lever having one end hinged to said rotational axle of said wheel.

13. (new) The transmission device of Claim 10, each of said first and second eccentrics being a truncated roller having a flat surface thereon, the transmission device further comprising:

a pair of springs respectively cooperative with the flat surface of said first and second eccentrics so as to maintain contact between the eccentric and said wheel.

14. (new) The transmission device of Claim 10, each of said first and second eccentrics having an eccentricity of 3/10 millimeter for a 6 millimeter diameter.

15. (new) The transmission device of Claim 11, further comprising:

a control means for causing an alternating movement of said lever, said lever being slaved by a dog to said control means, said dog positioned on a side of said lever at a variable distance from said oscillating axle.

16. (new) The transmission device of Claim 11, further comprising:

a rack; and

a pinion cooperative with said rotational axle of said wheel, said pinion engaging said rack.

17. (new) The transmission device of Claim 15, further comprising:

a declutching means cooperative with said pinion for releasing said pinion from said rotational axle of said wheel.

18. (new) The transmission device of Claim 15, further comprising:

a tank suitable for containing a material therein, said rack cooperative with said tank so as to release the material therefrom.

19. (new) The transmission device of Claim 17, said tank being a cartridge having a distribution nozzle and a piston, said rack being cooperative with said piston so as to release material from said cartridge.